



The vulnerability of global cities to climate hazards

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Abstract:

This paper examines the vulnerabilities of three global coastal cities – Mumbai, Rio de Janeiro and Shanghai – to climate hazards. The paper highlights system characteristics that, in unique combinations, create place-based vulnerabilities to climate hazards. It describes these vulnerabilities then discusses the implications of the results for city planners and managers. A concluding section assesses some of the political obstacles to better disaster preparedness.

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Resource Description

Climate Scenario :

specification of climate scenario (set of assumptions about future states related to climate)

Special Report on Emissions Scenarios (SRES)

Special Report on Emissions Scenarios (SRES) Scenario: SRES A2, SRES B2

Communication:

resource focus on research or methods on how to communicate or frame issues on climate change; surveys of attitudes, knowledge, beliefs about climate change

A focus of content

Communication Audience:

audience to whom the resource is directed

Policymaker

Early Warning System:

resource focus on systems used to warn populations of high temperatures, extreme weather, or other elements of climate change to prevent harm to health

A focus of content

Exposure :

weather or climate related pathway by which climate change affects health

Climate Change and Human Health Literature Portal

Extreme Weather Event, Sea Level Rise

Extreme Weather Event: Flooding, Hurricanes/Cyclones, Landslides, Other Extreme Event

Extreme Weather Event (other): High winds

Geographic Feature: ☐

resource focuses on specific type of geography

Ocean/Coastal, Urban

Geographic Location: ☐

resource focuses on specific location

Global or Unspecified

Health Co-Benefit/Co-Harm (Adaption/Mitigation): ☐

specification of beneficial or harmful impacts to health resulting from efforts to reduce or cope with greenhouse gases

A focus of content

Health Impact: ☐

specification of health effect or disease related to climate change exposure

Injury

Mitigation/Adaptation: ☐

mitigation or adaptation strategy is a focus of resource

Adaptation

Model/Methodology: ☐

type of model used or methodology development is a focus of resource

Exposure Change Prediction

Population of Concern: A focus of content

Population of Concern: ☐

populations at particular risk or vulnerability to climate change impacts

Low Socioeconomic Status

Resource Type: ☐

format or standard characteristic of resource

Review

Timescale: ☐

time period studied

Medium-Term (10-50 years)

Vulnerability/Impact Assessment:

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content